

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: February 14, 2001, 03:40:02 ; Search time 44.89 Seconds

(without alignments)
134.408 Million cell updates/sec

Title: US-09-481-990-2

Perfect score: 1753

Sequence: 1 MQLSLGSSCVLVERHRSR.....QNEPFWATGSSACVDGPNH 336

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

arched: 174772 seqs, 17957048 residues

Total number of hits satisfying chosen parameters: 174772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Issued_Patents_AA:*
1: /cgn2_6/prodata/2/1aa/5A.COMB.pep:*
2: /cgn2_6/prodata/2/1aa/6.COMB.pep:*
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4: /cgn2_6/prodata/2/1aa/6.COMB.pep:*
5: /cgn2_6/prodata/2/1aa/6.COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1753	100.0	336	US-08-749-816-2	Sequence 2, Appli
2	239	13.6	618	US-08-332-312-2	Sequence 2, Appli
3	226.5	12.9	383	US-08-749-816-4	Sequence 4, Appli
4	220	12.5	336	US-08-332-312-4	Sequence 4, Appli
5	148	8.4	27	US-08-749-816-6	Sequence 6, Appli
6	145.5	8.3	347	US-08-749-816-3	Sequence 3, Appli
7	139	7.9	27	US-08-749-816-5	Sequence 3, Appli
8	95	5.4	539	US-08-464-340A-13	Sequence 13, Appli
9	94.5	5.4	363	US-08-148-209A-2	Sequence 2, Appli
10	94.5	5.4	363	US-08-148-209A-3	Sequence 3, Appli
11	94	5.4	494	US-08-464-340A-4	Sequence 4, Appli
12	94	5.4	494	PCT-US94-08449A-4	Sequence 4, Appli
13	93.5	5.3	1174	US-08-040-751-3	Sequence 2, Appli
14	93.5	5.3	1174	US-08-291-368-2	Sequence 2, Appli
15	93.5	5.3	1174	US-08-962-190-2	Sequence 2, Appli
16	93.5	5.3	1174	PCT-US95-10310-2	Sequence 2, Appli
17	93.5	5.3	1174	5164180-4	Patent No. 5164180
18	91.5	5.2	1159	US-08-956-242-13	Sequence 13, Appli
19	91.5	5.2	1159	US-09-351-215-13	Sequence 13, Appli
20	90	5.1	888	US-08-956-242-4	Sequence 4, Appli
21	90	5.1	888	US-09-351-215-4	Sequence 4, Appli
22	87.5	5.0	624	US-08-879-561-3	Sequence 3, Appli
23	85.5	4.9	509	US-08-845-566-1	Sequence 1, Appli
24	85	4.8	1176	US-08-257-899-2	Sequence 2, Appli
25	83.5	4.8	624	US-08-879-561-9	Sequence 9, Appli
26	83.5	4.8	731	US-09-115-446-2	Sequence 2, Appli
27	82	4.7	1367	US-08-249-687C-2	Sequence 2, Appli
28	82	4.7	1367	US-08-625-819-2	Sequence 2, Appli

29	82	4.7	1367	US-08-746-559A-2	Sequence 2, Appli
30	81.5	4.6	626	US-08-956-242-2	Sequence 2, Appli
31	81.5	4.6	626	US-09-351-215-2	Sequence 2, Appli
32	81	4.6	477	US-08-191-338A-2	Sequence 2, Appli
33	80	4.6	312	US-09-014-969-17	Sequence 17, Appli
34	79	4.5	328	US-08-118-270-42	Sequence 42, Appli
35	79	4.5	328	PCT-US93-08528-42	Sequence 42, Appli
36	79	4.5	532	US-08-288-405A-10	Sequence 10, Appli
37	79	4.5	584	US-08-928-652-13	Sequence 13, Appli
38	78	4.4	309	US-08-605-284B-6	Sequence 6, Appli
39	78	4.4	369	US-08-416-756A-2	Sequence 2, Appli
40	78	4.4	384	US-07-937-609-17	Sequence 17, Appli
41	78	4.4	384	PCT-US92-02091-2	Sequence 2, Appli
42	78	4.4	453	US-08-132-990A-6	Sequence 6, Appli
43	78	4.4	453	PCT-US92-09382-6	Sequence 6, Appli
44	78	4.4	581	US-09-135-021-80	Sequence 80, Appli
45	78	4.4	614	US-08-543-881-2	Sequence 2, Appli

ALIGNMENTS

```
RESULT 1
US-08-749-816-2
: Sequence 2, Application US/08749816
: Patent No. 6013470
:
: GENERAL INFORMATION:
: APPLICANT: Lesage, Florian
: APPLICANT: Guillemae, Eric
: APPLICANT: Fink, Michel
: APPLICANT: Duprat, Fabrice
: APPLICANT: Lazdunski, Michel
: APPLICANT: Romey, Georges
: APPLICANT: Barnaud, Jacques
: TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
: TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
: TITLE OF INVENTION: OF DRUGS
: NUMBER OF SEQUENCES: 19
:
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: WEISER & ASSOCIATES
: STREET: 230 South Fifteenth Street, Suite 500
: CITY: Philadelphia
: STATE: PA
: COUNTRY: USA
: ZIP: 19102
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/749,816
: FILING DATE: 15-NOV-1996
: CLASSIFICATION: 536
: ATTORNEY/AGENT INFORMATION:
: NAME: Weiser, Gerard J.
: REGISTRATION NUMBER: 19,763
: REFERENCE/DOCKET NUMBER: 989,6351P
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 215-875-8383
: TELEFAX: 215-875-8394
:
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 336 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
:
: US-08-749-816-2
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Query Match 100.0%; Score 1753; DB 3; Length 336;
Best Local Similarity 100.0%; Pred. No. 1.2e-161;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 MLOSLAGSSCVLVERHRSAMCFGLVGLYLLTVFAGAVFSSVELPYEDLLROELRLK 60
DB 1 MLOSLAGSSCVLVERHRSAMCFGLVGLYLLTVFAGAVFSSVELPYEDLLROELRLK 60
OY 61 RRFLEHEHCLSQOLEQFLGRVLEASNQGVSYLSNAGNMWMDFTSALEFASVSTSTGY 120
DB 61 RRFLEHEHCLSQOLEQFLGRVLEASNQGVSYLSNAGNMWMDFTSALEFASVSTSTGY 120
OY 121 GHTVPLSDGKAFCTIYVIGIPFLFLFLTAIVORITVHVTRRPVLYTHIMKFSKOVA 180
DB 121 GHTVPLSDGKAFCTIYVIGIPFLFLFLTAIVORITVHVTRRPVLYTHIMKFSKOVA 180
OY 181 IVHAVLGFVTVSCFFETIPAAVFSVLEDDMNFLSEFYCFISLSTIGLDYVPGEGYNOK 240
DB 181 IVHAVLGFVTVSCFFETIPAAVFSVLEDDMNFLSEFYCFISLSTIGLDYVPGEGYNOK 240
OY 241 FRELYKIGITCYLLGLTAMLVLETFCLELKKFRKMFYVKKDKDQDQVHIIEHDOLS 300
DB 241 FRELYKIGITCYLLGLTAMLVLETFCLELKKFRKMFYVKKDKDQDQVHIIEHDOLS 300
OY 301 FSSITDOAGMKEDOKONEPFAVATQSSACVDGPANH 336
DB 301 FSSITDOAGMKEDOKONEPFAVATQSSACVDGPANH 336

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RESULT 2
US-08-332-312-2
; Sequence 2, Application US/08332312
; Patent No. 5559026
; GENERAL INFORMATION:
; APPLICANT: Price, Laura A.
; TITLE OF INVENTION: Functional Expression of a Drosophila
; TITLE OF INVENTION: Functional Expression of a Drosophila
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: American Cyanamid Company
; STREET: One Cyanamid Plaza
; CITY: Wayne
; STATE: New Jersey
; COUNTRY: US
; ZIP: 07470-8426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,312
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Harrington, James J.
; REGISTRATION NUMBER: P-38,711
; REFERENCE/DOCKET NUMBER: 32,421
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-831-3246
; TELEFAX: 201-831-3305
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 618 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-332-312-2

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Query Match 13.6%; Score 239; DB 1; Length 618;
Best Local Similarity 28.1%; Pred. No. 5e-15;
Matches 74; Conservative 49; Mismatches 112; Indels 28; Gaps 8;
OY 26 LVGLYLVFAGAVFSSVELPYEDLLROELRLK---LKRFLHEHCLSQOLEQFLGR 81

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DB 9 LLIIFYSLYMGAAIYYHIEHGEKISRQKQOIAINELYELLELDGKNTTQDELQ 68
OY 82 VLEASNQGVSYLSNAGSN-NMMDFTSALFASVYLSSTTGGHVPPLSDGKAFCTIYSVT 140
DB 69 ISDCDKRPVTLPPYDDTPTTWTYHAFEFVCSVGVGNISPTTFACRMIMAYSVA 128
OY 141 GIPFT-ILF-----LTAVVRITVHVTRRPVLYTHIMKFSKOVAIVHAVLGF 189
DB 129 GIPVNGILFAGLGRYFGRTEFAIYRKYKMSIDMHYVPPQLG---ITTVIALIPG- 184
OY 190 VTVSCFFETIPAAVFSVLEDDMNFLSEFYCFISLSTIGLDYVPGEGYNOK-----FREL 244
DB 185 --IALFLVLCVGVHLLRELGSLSSLYSVYTTTIGFDYVPTFGANQPKRFGGMFV 242
OY 245 YKIGITCYLLGLTAMLVLETE 267
DB 243 YQIFVIVWFIFSL-GYLVMIIMTF 264

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RESULT 3
US-08-749-816-4
; Sequence 4, Application US/08749816
; Patent No. 6013470
; GENERAL INFORMATION:
; APPLICANT: Lesage, Florian
; APPLICANT: Guillemare, Eric
; APPLICANT: Fink, Michel
; APPLICANT: Duprat, Fabrice
; APPLICANT: Lazdunki, Michel
; APPLICANT: Romey, Georges
; TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
; TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: WEISER & ASSOCIATES
; STREET: 230 South Fifteenth Street, Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/749,816
; FILING DATE: 15-NOV-1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 989,6351P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-749-816-4

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Query Match 12.9%; Score 226.5; DB 3; Length 383;
Best Local Similarity 26.2%; Pred. No. 4.3e-14;
Matches 89; Conservative 56; Mismatches 134; Indels 61; Gaps 12;

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0Y 26 LVLGILLIYVAGAVFSSVLEPYEDLLR-----OELKRIKRIPE-----BHCISSEQ 74
Db 44 LVLSCTVYALGAGVLFISIEHP-ELKRRKAREFODLQOINQNTISSTEN---SEOS 99
0Y 75 LEOLFGRVL-----EASNNGVSVLSNAGSNMMWDETSALFASVYLSSTGYGHVPLS 127
Db 100 IEITTKKILMLBEDAHNNAHAEYEFELNHEIRPKDMWTFSSALVETTTTVIVGVGCIYFPVS 159
0Y 128 DGGKAFCTIYSGIIPFTLLFLTPAVORTVHTRRPVLXYHIRMGFSKOVVALVHAVLL 187
Db 160 AYGRMCILAYALLGIPILT-----VPMADGKPAQVLVTRM-FGDNNMAIIPAIF- 208
0Y 188 GFVYVSCCFPLPAVFSVLEDDMN-FLESYFCEJLSLSTIGLDYVPGSGIYOKKRELY 245
Db 209 -----VCLFAPPLVGVGILFICSTSNITLDSYFSTISIFIGGDLTP-----DMN 255
0Y 246 KIGITCVLLGLLIMLVL-----ETFCELHELKFF-----RKHFYKKDKDEQVH 252
Db 256 VIHNVFLFVAGVILVTTLLDVAEMIDRVAHYMGRAHVGAKELAGKMFOLAOSLNMKQGL 315
0Y 293 IIEHDSLSSSITDOAGMKEDOKONEPFAVOTOSACVD 332
Db 316 VSGVGQLHALARFGMLVGREVDKTOGDGILARSPPVMDG 355

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Db 19 VKKNAATE-TWTSSSIEFATVTTTIGGAPVPNTNIGRMWCLFLSLGLPPL----- 72
Oy 152 VQORTVHTRRPVLPHYHIRMG----- 174
Db 73 ----VTIADLAGEKLEHLLVWLYGNYLTKLYLISRRKEREHVECHSHGMDINI 128
Oy 175 -SKOVNA-IYAVAVLLGFYVASCFFPFAAVSVLEDDNPLFESYPCFISLSTGLDLY 233
Db 129 EKKRIPALVLAIIIVYAFG-----GVMSKLE-PMSFPTSYSFIMTVGVGFEDLM 181
Oy 233 PGEYNQKRELEYKIGTICVLLGLIAL-----VLEPFC-ELHEIKKRFMY 261
Db 182 PR-----KGVYVILIYIIILGKFSKKKOKRIEGLAITTMCIDLVGVQIRIRIH 234

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01 RESULT 5
02 US-08-749-816-6
03 Sequence 6, Application US/08749816
04 Patent No. 6013470
05 GENERAL INFORMATION:
06 APPLICANT: Lesage, Florian
07 APPLICANT: Guillemare, Eric
08 APPLICANT: Fink, Michel
09 APPLICANT: Duprat, Fabrice
10 APPLICANT: Lazdunski, Michel
11 APPLICANT: Romey, Georges
12 APPLICANT: Barnaud, Jacques
13 TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
14 TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
15 TITLE OF INVENTION: OF DRUGS
16 NUMBER OF SEQUENCES: 19
17 CORRESPONDENCE ADDRESS:
18 ADDRESSEE: WEISER & ASSOCIATES
19 STREET: 230 South Fifteenth Street, Suite 500
20 City: Philadelphia
21 STATE: PA
22 COUNTRY: USA
23 ZIP: 19102
24 COMPUTER READABLE FORM:
25 MEDIUM TYPE: Floppy disk
26 COMPUTER: IBM PC compatible
27 OPERATING SYSTEM: PC-DOS/MS-DOS
28 SOFTWARE: Patentin Release #1.0, Version #1.30
29 CURRENT APPLICATION DATA:
30 APPLICATION NUMBER: US/08-749-816
31 FILING DATE: 15-NOV-1996
32 CLASSIFICATION: 536
33 ATTORNEY/AGENT INFORMATION:
34 NAME: Weiser, Gerard J.
35 REGISTRATION NUMBER: 19,763
36 REFERENCE/DOCKET NUMBER: 989.6351P
37 TELECOMMUNICATION INFORMATION:
38 TELEPHONE: 215-875-8383
39 TELEFAX: 215-875-8394
40 INFORMATION FOR SEQ ID NO: 6:
41 SEQUENCE CHARACTERISTICS:
42 LENGTH: 27 amino acids
43 TYPE: amino acid
44 STRANDEDNESS:
45 TOPOLOGY: linear
46 MOLECULE TYPE: peptide
47 US-08-749-816-6
48
49 Query Match 8.4%; Score 148; DB 3; Length 27;
50 Best Local Similarity 100.0%; Pred. No. 5.1e-08;
51 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
52
53 01 212 FLESYFCFISLTIGLDYVPGEGYN 238
54 1 FLESYFCFISLTIGLDYVPGEGYN 27
55 DB

```

RESULT 6
US-08-749-816-3
Sequence 3, Application US/08749816
Patent No. 6013470
GENERAL INFORMATION:
APPLICANT: Lesage, Florian
APPLICANT: Guillemare, Eric
APPLICANT: Fink, Michel
APPLICANT: Duprat, Fabrice
APPLICANT: Lazdunski, Michel
APPLICANT: Romey, Georges
APPLICANT: Barhain, Jacques
TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: WEISER & ASSOCIATES
STREET: 230 South Fifteenth Street, Suite 500
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,816
FILING DATE: 15-NOV-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 989,6351P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 347 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-749-816-3

Query Match 8.3%; Score 145.5; DB 3; Length 347;
Best Local Similarity 23.5%; Pred. No. 2.5e-06;
Matches 79; Conservative 55; Mismatches 127; Indels 75; Gaps 15;
QY 31 LALYVGAIVFSSVELPYEDLLRQELRLKRLFEHECLSE-----OOLEPLGRV 82
DB 47 LVNVLGAGIFLYAE-----TONSESELNENSEVSKCHLNPICGKITAEKSKLGC 99
QY 83 LEASNGVSVLSNAGNMWMDFTSALEFASVLTGTYGHTVPLSGCAFCITISVIGI 142
DB 100 LTRMS-----SRIDG-----FGALFEFSWTLTYSTVGSLPHSTLGRYLIFFYSILMI 147
QY 143 P-----FTLLFLAVVQRTVHTRRPVLYFHTRMGFSKQV--AIIVAVLL- 187
DB 148 PVFIARKEFGFELAHFLVVSNRRLAVK--AVYKLSQNPENAEIPSNLSQHDYLI 204
QY 188 --GVTVSGEFFIRPAVEVLEDDNMFLESFYFCISLTIGLDGYVGEQYNQKRELY 245
DB 205 LSSLCLCSISLSSSALFESSIE-NISYLSVYFGIITMELIGIDIVPTN----- 253
QY 246 KGITCYLLGLLIAMLVET--FCEIHELKFE--RKMFVKKDKEDQV-----H 292
DB 254 LVWFGYCYCLFLISDVLSNQITYFCQARVRYFHILARKILLREDDGFQLETTVSIOH 313

QY 293 I-IEHDLSFSSITDQAGMKEDQKONEPEVATOSS 327
DB 314 IPIINSQCPMLVDCE---KEEDNDEKILSSILTS 346

RESULT 7
US-08-749-816-5
Sequence 5, Application US/08749816
Patent No. 6013470
GENERAL INFORMATION:
APPLICANT: Lesage, Florian
APPLICANT: Guillemare, Eric
APPLICANT: Fink, Michel
APPLICANT: Duprat, Fabrice
APPLICANT: Lazdunski, Michel
APPLICANT: Romey, Georges
APPLICANT: Barhain, Jacques
TITLE OF INVENTION: FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
TITLE OF INVENTION: THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: WEISER & ASSOCIATES
STREET: 230 South Fifteenth Street, Suite 500
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,816
FILING DATE: 15-NOV-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 989,6351P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-749-816-5

Query Match 7.9%; Score 139; DB 3; Length 27;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 104 FTSALFPASTVLTSTGTYGHTVPLSDG 130
DB 1 FTSALFPASTVLTSTGTYGHTVPLSDG 27

RESULT 8
US-08-464-340A-13
Sequence 13, Application US/08464340A
Patent No. 5710019
GENERAL INFORMATION:
APPLICANT: LI, ET AL.
TITLE OF INVENTION: Human Potassium Channel 1 and 2 Proteins
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/148,209A
FILING DATE: 05-NOV-1993
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Rowland, Berttram I
REGISTRATION NUMBER: 20,015
REFERENCE/DOCKET NUMBER: A-58491-1/BIR
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
-08-148-209A-3

Query Match 5.4%; Score 94.5; DB 1; Length 363;
Best Local Similarity 20.9%; Pred. No. 0.23;
Matches 60; Conservative 40; Mismatches 80; Indels 107; Gaps 16;

QY 17 HRSACGFGFL--VLGLVLYL-VFGAVVF--SSVELPYEDLLROELRLKRRFLERH-- 67
DB 106 YRIDMLFGPMCVFSGFELNMFASLEFYTQMSVD-RYOSVYLPFLSQRRNPQASVYV 164
QY 68 -----ECLSEQOLEOFLGRVLEASN-----GVSVLNAGSNMN 101
DB 165 PLVWMAAGCS--SLPFYFEDVARTIELGVNACIMAFPEPKYQMSGIALMNILG--- 219
QY 102 WDTSLAFRAST-----VLSTGYGHTVPLSDG---GKAFCIIYSYIGIPE--TLLE 148
DB 220 --FIIPLIFATCYFGIRKHLTKNSYGNRITRDQVLMKMAAVLAFFIICMLPFHVLT 277
QY 149 LFAVORITVHTVRRPVLVYHIMGFSKOVAIV---HAVLLGFVTSCEFPIPAVF 203
DB 278 LDALTMGIIIN-----SCEYIAVIDLALPAILLGF--TNSC----- 312
QY 204 SVLEDDMFLSEFYFCFISLSTIGLDYVPEGYNOKFRELYKIGIT 250
DB 313 -----VNPLCYCFV-----GNRFQOKLRGVRFPIT 338

RESULT 11

-08-464-340A-4
Sequence 4, Application US/08464340A
Patent No. 5710019
GENERAL INFORMATION:
APPLICANT: LI, ET AL.
TITLE OF INVENTION: Human Potassium Channel 1 and 2 Proteins
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
ADDRESSER: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,340A
FILING DATE: June 5, 1995

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/08449
FILING DATE: 28 JUL 1994
ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-415
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 494 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
US-08-464-340A-4

Query Match 5.4%; Score 94; DB 1; Length 494;
Best Local Similarity 20.9%; Pred. No. 0.38;
Matches 69; Conservative 63; Mismatches 136; Indels 62; Gaps 16;

QY 10 CV-RIVERHRSAMCGFLV--LGYLYLVYGVAVFSSVELPYEDLLROELRLKRRFLER- 65
DB 167 CVMKFLKPESS--CPARVVALESLFLLIV--SSVVMCDTIPELQVDAEGNREHPTLEN 224
QY 66 -EHECISEQOLEOFLGRVLEASN---YGSVLSNAGSNMMDFTSL--PFASVLTSTGY 120
DB 225 VETACIGWFTLE--YLRLTFSSPNKLFHLSFMNIV-----DVIALLPYVSILTLHLG- 276
QY 121 GHTVPLSDGKAKCIIYSVIGIFITLLFAVVOIRITVHTRRPVLVYHIMGEFSQOVA 180
DB 277 ARMELTNVOQA-----VOALRIIRIARIFKLARHSSGIQTLVYALKRSFKEL--- 324
QY 181 IVAHLLGFVTVSCFFPI-----PAVFSVLEDDMFLSEFYFCFISLSTIGLD 230
DB 325 ---GLILMYLVAGIFVFSALGYTMEQSHPETLR-----NIGQSFMMALITWTYGYGD 375
QY 231 YVPEGYNOKFRELYKIGITCYLLGLIAMLVYLETFCELHEIKRKRFYAKKDEDO 290
DB 376 IYPR-----TTLSKINMAISFLCGVIAIAPRIHPI-----INNEVRYNKRQVLETA 423
QY 291 VHIIEHDQSFSSITDOAGMKEDQKNEP 320
DB 424 KHELELMELNSSSGGEGKTGSRSDLDNLP 453

RESULT 12

PCT-US94-08449A-4
Sequence 4, Application PC/TUS9408449A
GENERAL INFORMATION:
APPLICANT: LI, ET AL.
TITLE OF INVENTION: Potassium Channel Protein 1 and 2
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
ADDRESSER: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/08449A
FILING DATE: SUBMITTED HEREMITH

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-105
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 494 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
T-US94-08449A-4

Query Match 5.48; Score 94; DB 4; Length 494;
Best Local Similarity 20.9%; Pred. No. 0.38;
Matches 69; Conservative 63; Mismatches 136; Indels 62; Gaps 16;

QY 10 CV-RIVEHRSAMCGFLV--LGVLIVYFGAVVSSVELPEDELLRQELRKRFLE- 65
DB 167 CVMKFLERPESS-CPARVAELSLFLILV-SSVWCMPTPLQVLDAENVEHPTLEN 224
QY 66 -EHECLSQOLEOFLGRVLEASN--YGVSVLSNAGNMNDFTSAL-FFASTVSTGY 120
DB 225 VETACIGFTLE-YLRLFFSSPNKHFALSPFNIV-----DYALILFFYSILTIHLG- 276
QY 121 GHTVPLSDGKACFIIVSIVIGIPTLLEFLAVVORITVHT3RPVLYFHIRMGEFSKOYVA 180
DB 277 ARMMLTFTVVOA-----VOALRIMRIARIFKLARHSS3LQTLTYALKSFREL-- 324
QY 181 IVHNVLEGFVNVSCFFI-----PAVFSVLEDDMNLESEFYCFISLSITGLCD 230
DB 335 ---GLIMLYLVAVGFVSALGYTMEQSHPETLEK-----NIPQSFMAIITMTVGYGD 375
QY 231 YVPGEGYOKRELYKISITCYLLGLIAMLVLETFCELHLEKFRKMFYKKDKDEDO 290
DB 376 IYPK-----TTLSKLMAAISFLCGVIALALPHIPi-----INNFVRYNKQRLVETRA 423
QY 291 VHIIEHQLSFSSTDDQAAMKEDEKONEP 320
DB 424 KHELELMELNSSSGEGKRTGSGRSDLNLP 453

RESULT 13
US-08-040-751-3
Sequence 3, Application US/08040751
Patent No. 5407825
GENERAL INFORMATION:
APPLICANT: Payne, Jewel M
APPLICANT: Sick, August J
TITLE OF INVENTION: No. 5407825el Bacillus thuringiensis isolates
TITLE OF INVENTION: active against Lepidopteran Pests and Genes Encoding No. 54078
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID R. SALIWANCHIK
STREET: 2421 N.W. 41st STREET, SUITE A-1
CITY: GAINESVILLE
STATE: FL
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/040,751
FILING DATE: 19930329
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: SALIWANCHIK, DAVID R.
REFERENCE/DOCKET NUMBER: MA39.C1.D3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 904-375-8100
TELEFAX: 904-372-5800
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1174 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Bacillus thuringiensis
STRAIN: aizawai
INDIVIDUAL ISOLATE: PS81A2
IMMEDIATE SOURCE:
LIBRARY: Lambdagem - 11 (tm) Library of August Sick
CLONE: 81A2
US-08-040-751-3

Query Match 5.3%; Score 93.5; DB 1; Length 1174;
Best Local Similarity 25.18%; Pred. No. 1.3;
Matches 46; Conservative 24; Mismatches 46; Indels 67; Gaps 9;

QY 24 GFLVGYLLIVYFGAVVSSVELPEDELLRQELRKRFLEHCLSEOLECF----- 78
DB 51 GDFILG-LFDVIWGAIGSQMDI-----FLEQIELLIGRIEEFARNQA 93
QY 79 LGRVLEASNYGVSVLSNAGNMNDFT-----SALFPASTVLSITGYGH 122
DB 94 ISRLQGLSNTL-YRIYTNAFKNWEVDPNPALEENRIOFNDSNSALTAIPLFSVOGY-- 150
QY 123 TVPLSDGKACFIIVSIVIGIPTLLEFLAVVORITVHT-RRPVLYFHIRMGEFSKOYVAI 181
DB 151 ETPL-----LSVYVQANLHLVLRDVSVPFGQRMGFD--VAT 185
QY 182 VHA 184
DB 186 INS 188

RESULT 14
US-08-291-368-2
Sequence 2, Application US/08291368
Patent No. 5686069
GENERAL INFORMATION:
APPLICANT: Payne, Jewel M.
APPLICANT: Sick, August J.
TITLE OF INVENTION: No. 5686069el Bacillus thuringiensis isolates
TITLE OF INVENTION: Active Against Lepidopteran Pests
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: SalIWanchik & SalIWanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: FL
COUNTRY: US
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

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